

## Contents

*Abstracted/Indexed in/Cited in: API Abstracts; Chemical Engineering and Biotechnology Abstracts; Catalysts & Catalysis; Chem Inform; Chemical Abstracts; Current Contents: Engineering; Current Contents: Engineering Index; Current Contents: Physical, Chemical & Earth Sciences; Engineering, Technology & Applied Sciences; Metals Abstracts; Research Alert; SCISEARCH; Science Citation Index; Theoretical Chemical Engineering Abstracts. Also covered in the abstract and citation database SciVerse Scopus®. Full text available on SciVerse ScienceDirect®*

Fast photocatalytic degradation of rhodamine B over $[\text{Mo}_6\text{Br}_8(\text{N}_3)_6]^{2-}$ cluster units under sun light irradiation A. Barras, S. Cordier and R. Boukherroub (France) . . . . .	1
Low temperature synthesis and photocatalytic properties of highly oriented $\text{ZnO}/\text{TiO}_{2-x}\text{Ny}$ coupled photocatalysts Y. Huang, Y. Wei, J. Wu, C. Guo, M. Wang, S. Yin and T. Sato (Japan, China) . . . . .	9
One-step in situ solvothermal synthesis of $\text{SnS}_2/\text{TiO}_2$ nanocomposites with high performance in visible light-driven photocatalytic reduction of aqueous $\text{Cr(VI)}$ Y.C. Zhang, J. Li and H.Y. Xu (China) . . . . .	18
Cu-modified cryptomelane oxide as active catalyst for CO oxidation reactions W.Y. Hernández, M.A. Centeno, S. Ivanova, P. Eloy, E.M. Gaigneaux and J.A. Odriozola (Spain, Belgium) . . . . .	27
Surface-modified anatase nanocrystalline building blocks for constructing catalytically highly active nanoporous titania materials C.-H. Chen, C.-H. Liu, Y.-C. Su and C.-M. Yang (Taiwan) . . . . .	36
Photodegradation of phenanthrene on cation-modified clays under visible light H. Jia, J. Zhao, X. Fan, K. Dilimulati and C. Wang (China) . . . . .	43
Graphene as a new carbon support for low-temperature fuel cell catalysts E. Antolini (Italy) . . . . .	52
Optimization synthesis of carbon nanotubes-anatase $\text{TiO}_2$ composite photocatalyst by response surface methodology for photocatalytic degradation of gaseous styrene J. Chen, G. Li, Y. Huang, H. Zhang, H. Zhao and T. An (China, Australia) . . . . .	69
Nanocrystalline pyrochlore $\text{AgSbO}_3$ : Hydrothermal synthesis, photocatalytic activity and self-stable mechanism study W. Liu, X. Liu, Y. Fu, Q. You, R. Huang, P. Liu and Z. Li (PR China) . . . . .	78
Ag-doped Mn-Cd sulfide as a visible-light-driven photocatalyst for $\text{H}_2$ evolution K. Ikeue, Y. Shinmura and M. Machida (Japan) . . . . .	84
Highly efficient photocatalyst $\text{Bi}_2\text{MoO}_6$ induced by blue light-emitting diode Z. Zhang, W. Wang, J. Ren and J. Xu (PR China) . . . . .	89
Mechanisms of catalytic ozonation on alumina and zeolites in water: Formation of hydroxyl radicals A. Ikhlaiq, D.R. Brown and B. Kasprzyk-Hordern (Pakistan, UK) . . . . .	94
Platinum oxide formation and reduction during NO oxidation on a diesel oxidation catalyst - Experimental results K. Hauff, U. Tuttlies, G. Eigenberger and U. Nieken (Germany) . . . . .	107
Fenton-like degradation of 2,4-dichlorophenol using $\text{Fe}_3\text{O}_4$ magnetic nanoparticles L. Xu and J. Wang (PR China) . . . . .	117
Formation of core/shell structured polystyrene/anatase $\text{TiO}_2$ photocatalyst via vapor phase hydrolysis F. Shi, Y. Li, H. Wang and Q. Zhang (PR China) . . . . .	127
Selective catalytic reduction of NO on single site FeSiBEA zeolite catalyst: Influence of the $\text{C}_1$ and $\text{C}_2$ reducing agents on the catalytic properties J. Janas, W. Rojek, T. Shishido and S. Dzwigaj (Poland, Japan, France) . . . . .	134

(Contents continued on page I)

## SciVerse ScienceDirect

Full text of this journal is available, on-line from **ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.

